IL'IN, V.S.; STEPANOVA, N.G.

CANCEL CONTROL CONTROL

Activity of hexokinase, glucose-6-phosphate dehydrogenase and glucose-6-phosphatase of liver cell fractions in rabbit embryos and full-grown animals following introduction of glucocorticosteroids. Vop. med. khim. 10 no.6:576-584 N-D 164.

(MIRA 19:1)

ASSESSMENT OF THE PROPERTY OF

1. Otdel biokhimii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

L 57476-65

ACCESSION NR: AP5014190

UR/0385/65/001/001/0032/0037 577.154.2+591.543.42:591.436.2 +591.175:599.322.2

AUTHOR: Daudova, G. M.; Stepanova, N. G.

14 B

TITLE: Hexokinase and glucokinase in liver and muscle cell fractions of susliks during hibernation and awakening

SOURCE: Zhurnal evolyutsionnoy biokhimii i fiziologii, v. 1, no. 1, 1965, 32-37

TOPIC TAGS: laboratory animal, metabolism, enzyme, liver, hibernation, muscle protein, physiology

ABSTRACT: Experiments were performed to determine glucokinase activity in the mitochondria and soluble fraction from the muscles and liver of wakeful adult susliks (Citellus pygmaeus Pall.) and the activity of hexokinase and glucokinase in liver mitochondria during hibernation and at the time of awakening of these mnimals. Herokinase activity in the liver and muscles of wakeful susliks was found to be much higher than in such laboratory animals as rabbits or rats. Also, its distribution between the cell fractions differed from that in the laboratory animals. Translated

Card 1/3

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CIA-RDP86-00513R001653220004-8

L 57476-65

ACCESSION NR: AP5014190

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into protein content of the fractions, hexokinase activity was more intense in the liver mitochondria of the susliks. However, it was only slightly higher in the soluble liver fraction of the susliks than in the rats and rabbits. As in the rabbits and rats, glucokinase activity in the susliks was concentrated mainly in the soluble liver fraction. No glucokinase was found in the muscles of the susliks. Hexokinase activity in the liver mitochondria of hibernating susliks was less by a factor of 5.5 when compared with wakeful animals, whereas glucokinase activity decreased only slightly during hibernation. When the animals were awakened, hexokinase activity in the mitochondria increased sharply within 12-15 minutes, although body temperature rose insignificantly. Thereafter, hexokinase activity continued to increase in parallel with the rise in body temperature. Glucokinase activity in the mitochondria diminished during hibernation but tended to increase when the animals were awakened. The high hexokinase activity in the liver and muscles of wakeful susliks is regarded by the authors as a form of adaptation. Orig. art. has: 2 figures, 1 table.

ASSOCIATION: Otdel obshchey patologii i otdel biokhimii Instituta eksperimental noy meditsiny AMN SSSR, Leningrad (General Pathology and Biochemistry Departments, Institute of Experimental Medicine, AMN SSSR)

Card 2/3

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BOYTSOVA, V.F., RUSINOVA, K.D., STEPANOVA, N.I.

Determination of moisture in bromine. Zav.lab. 26 no.5:550-551 '60. (MIRA 13:7)

1. Gosudarstvennyy institut prikladnoy khimii.
(Bromine--Analysis) (Moisture)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

STEPANOVA, N.I.

Splenectomy in the acute stage of Werlhof's disease in children. Vop. okh. mat. i det. 6 no.4:14-16 Ap '61. (MIRA 14:6)

1. Iz kafedry detskoy khirurgii (zav. - prof. A.F.Zverev) Sverdlov-skogo meditsinskogo instituta.
(PURPUPA (PATHOLOGY)) (SPLEEN-SURGERY)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

KRASIK, L.B.; YEGOROVA, A.I.; GEYKHMAN, K.P.; SKOROSPESHKINA, M.I.; KARKASHEVA, A.R.; PAREKHA, A.A.; GUZHAVINA, E.V.; STEPANOVA, N.I.

Physical development of pupils in the boarding schools of Perm (according to examination data of 1962). Zdrav. Ros. Feder. 7 no.6:22-26 Je *63. (MIRA 17:1)

1. Iz kafedry pediatrii (zav. - dotsent L.B. Krasik)
Permskogo meditsinskogo instituta (rektor - dotsent T.V.
Ivanovskaya).

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

STEPANOTA, N. I. (Post Graduate Student), I. W. Abramov, A. A. Tsaprun, Cand Vet Sci,
"The Significance of the Number of Ticks in Affection of Animals with the
Agents of Hemosporiaioses"

SO: Trudy Vsesoyuznogo Instituta Eksperimental'nov Veterinarii, Vol 19, No 2, 1952, Moscow

				s Ruipicepha				
Trudy	Vsesoyuznogo	Instituta E	ksperiment 9496/1494	al' <u>noy Veter</u> No.4178	inarii,	Vol 19,	No 2,	Moscow, 19

ZOTOV, A.P.; CHUMAKOV, M.P.; MARKOV, A.A.; STEPANOVA, N.I.; PETROV, A.N.

Experimental induction and serological investigations of Q fever.

Veterinariia 33 no.7:44-53 Jl *56.

(Q fever)

Ε

Conday : USSR

Casegory: Virology. Viruses of Wan and Aminals.

Rickettsias

Abs Jour: Ref Zhur-Biol., No 23, 1958, No 103554

no r : Zocov, A.P.; Chunakov, M.P.; Markov, L.A.; Steranova,

N.I.

Experimental Study of "Q" Fever in Agricultural Inimals (First Report). Experimental Reproduction of the Disease

or a Publicary Vses. in-ta elisperim, veterinaria, 1997, 20, 76-89.

Abstract: Sheep, Coats, long-horned cattle, herses and pics were

infected by means of the administration of ressive desce of Rickettsia burneti (intravenusly, subcutationally, intraculanceusly, orally, intra-randomaly)

Card : 1/2

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

Country : USSR

Category: Virology. Viruses of Man and Animals.

Rickettsias

Mbs Jour: Ref Zhur-Biol., No 23, 1958, No 103554

and by means of contact with sick animals and the application of infected ticks. The clinical signs of the disease were more prenounced in animals of the first group than in those of the second. The disease had a relapsing course (up to 10 relapses), which was observed during the eight months after infection. Four infected gravid sheep delivered two dead and four lave lambs, of which the died on the 26th day of lafe. It large number if inchesisias were found on smears from the fetal nembranes of sleep which had been infected one manda before delivery.

card : 2/2

E

Councry : USSR

Calegory: Virology. Viruses of Man and Animals.

Rickettsins.

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103555

were observed in the 3d-9th week, after with the quantity of antibodies decreased; however, i be were found for 11-14 mantis. In anitals infected by trans of contact with such annuals or the application of infected ticks, the antibodies appeared on the 14th-26th day after clinical recovery, readed lower titers and disappeared more quackly. The largest viters and the greatest persustance of the antibodies was observed in sheep; then, in long-horned cattle, and, finally, in horses.

Card : 2/2

62

USSR / Zooparasitology. General Problems.

Abs Jour: Ref Zhur-Biol., No 6, 1959, 24190.

Author : Stepanova, N. I.

: All-Union Institute of Experimental Veterinary Inat

Medicine.

Title : On the Problem of the Tpizootology of Babesiel-

liasis of Sheep.

Crig Pub: Tr. Vses. in-ta eksperim. veterinarii, 1957, 21,

123-141.

Abstract: With the aim of clarifying the problem of whether the sheep parasite-carriers of babesielliasis are sources of acarine infection and to what degree various stages of develoment of acarid Rhipicephalus bursa are epizootologically dangerous, experimental investigations were conducted with the strain Babesiella ovis, received from the Ar-

Card 1/2

STMEANUMA, N.I., kund. votc. n. nauk

Cumplement fixation reaction during anaplasmosis in cattle.

Veterinarila 38 no.4245-48 ap '61 (MIRA 18:1)

1. Vseseyumnyy institut eksperimental*noy veterinarile.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

UTERALOVA, H. I.; MARROV, A. A.: HEROVEE, A. C.: UTOROVELW, I. ..

"Emploi du xenodiagnostic et de la renation de fixation du complement pour la différentiation des especes de Thelleria."

report submitted for 1st Intl Cong, Farasitology, Rome, 21-26 Sep 1964.

Inst of Experimental Veterinary Medicine, Moscow G-372.

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	Toxoplasmosis	s in sheep. V	eterinarija	41 00.5:66-	.69 15v 162.	RA 18:3)	
	l. Vsesoyuzny	ny institut e	ksperimenta	l'noy veteri			

MARKOV, A.A., prof.; STEPANOVA, N.I., starshiy nauchnyy sotrudnik; TIMCFEYEV, B.A., starshiy nauchnyy sotrudnik

Studying toxoplasmosis in swine. Veterinariia 42 no.7:45-46
Jl 165. (MIRA 18:9)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

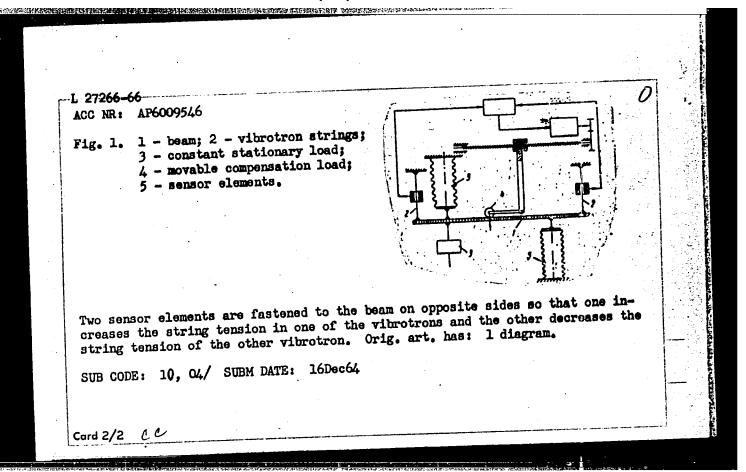
PETYAKINA, Ye.I.; EMINOV. Yo.A.; SHAMES, F.Ya.; STEPANOVA, N.K.

Lubricant performance of spindle and machine oils from eastern sulfur-hearing crudes. Trudy WNII NP no.7:86-96 '58.

(NIRA 12:10)

(Lubrication and lubricants--Testing)

ACC NR: AP6009546	SOURCE CODE: UR/0413/66/000/005/0078/0079
AUTHORS: <u>Gulyayev</u> , A. A.; <u>Manu</u> Stepanova, N. K.; Shapiro, M. Yo	ylov, K. N.; Gershenzon, G. S.; Mogil'ner, I. N.;
ORG: none	\mathcal{B}^{\prime}
ocientific Research Institute of	ansducer. Class 42, No. 179497 [announced by Hydrometeorological Instrument Manufacture itut gidrometeorologicheskogo priborostroyeniya)]
SOURCE: Izobreteniya, promyshle	ennyye obraztsy, tovarnyye znaki, no. 5, 1966,
	_
TOPIC TAGS: atmospheric pressur	e) pressure transducer
ABSTRACT: This Author Certifics containing elastic sensor elemento a beam connected to vibrotrom tem. To increase the accuracy of ties of the transducer, the beam	te pressure transducer ate presents an atmospheric pressure transducer ants, e.g., in the form of vacuum sylphons fasteners, a zero unit, a compensator, and a readout system assurements and to improve the dynamic properties suspended from two identical vibrotron string and and a movable compensation load (see Fig. 1).



STEPANCVA, N. M.: Master Med Sci (dlss) -- "Material on the study of changes in the nervous system in tularemia". Voronezh, 1958. 15 pp (Voronezh State Med Inst), 200 copies (KL, No 2, 1959, 126)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

AND REPORT OF THE PROPERTY OF

IVANOV, V.A.; STEPANOVA, N.M.

Possibility of benthonic sedimentation of resin resulting from the discharge of waste water from the production of synthetic rubber into a reservoir. Trudy Vor. med. inst. 47:19-22'62 (MIRA 16:12)

1. Kafedra giglyeny Voronezhskogo gosudarstvennego meditsinskogo instituta i laboratoriya Voronezhskogo filiala Vsesoyuznogo nauchno-issledovatel skogo instituta sinteticheskogo kauchuka po kharakteristike stokov proizvodstva sinteticheskogo kauchuka.

ARBUZOV, B.A.; VINBERG, L.I.; GOLUBOVICH, M.P.; STEPANOVA, N.M.;
NEYFAK, Ye.V.; TSAREVSKIY, N.I.

Casting into chill molds from wooden patterns. Alium. splavy
no.1:182-194 '63. (MIRA 16:11)

北京的华州北部民国共和党的国际共享,1985年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,19

STEPANOVA, N.M.: kund. room. nank

Analysis of differential-diagnostic criteria in tumors and vascular diseases of the brain. Trudy Vor. med. inst. 51:32-37 163.

Case of encephalitis with a periodic "sleep" syndrome. Ibid.:99-102

Clinical aspects of encephalitis with Dalrymple-Stellwig syndrome.
Tbid.:103-104 (MIRA 18:10)

1. Kafedra nervnykh bolezney Voronezhskogo meditsinskogo instituta.

IVANOV. V.A.; STEPANOVA, N.M.; POGORELOVA, M.V.

Experimental basis for the maximum permissible butyl acrylata concentration in the water of reservoirs and rivers. San. okhr. vod. ot zagr. prom. stoch. vod. no.6:134-146 164.

(MIRA 18:3)

1. Kafedra gigiyeny Voronezhskogo meditsinskogo instituta i laboratoriya Voronezhskogo filiala Vsesoyuznogo nauchno-issledovatelskogo instituta iskusstvennogo kauchuka imeni S.V.Lebedeva.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

EUNARDV, E.A., 1707.; STEPANOVA, N.M., kand.med.rau

controlled of control corebral changes in vascular diseases. Truly Vor.

cod. inct. 51:49-52 *63. (MIRA 18:10)

1. Kafedra narvojski bojezney Voronozbek sto meditsinakogo instituta.

CHUMAKOV, N.N.; SHIFRIN, A.R.; SMIRNOV, A.G.; KREPYSHEV, D.G.; VYSOTSKIY, A.I.; KUZ'MINA, N.M.; STEPANOVA, N.N.

EXPLORATION OF THE PROPERTY OF

Control of athlete's foot among workers of a plant producing rubber and industrial goods. Sov. med. 25 no.5:149-151 My *61.

(MIRA 14:6)

1. Iz kafedry kozhnykh i veremicheskikh bolezney Yaroslavskogo meditsinskogo instituta (zav. - prof. N.N.Chumakov) i Yaroslavskogo oblastnogo venerologicheskogo dispansera (glavnyy vrach D.G.Krepyshev). (RINGWORM) (FOOT—DISEASES)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

FULL SKIY, 7.K., doktor med. namk; FEDOROVA, G.P., Find. med. namk; SIMPAROVA, N.P.

Visceral neurofibromatosis. Sov. med. 27 no.11:125-130 (NIFA 18:1)

1. In kafedry obshokey khirurgii (zav. - ehlen-korrespondent ASSI SSSR prof. V.I. Struckkov) Moskovekogo ordena Lenina medikoingkogo instituta imeni I.M. Sephenova na baze klini-chestky; bol'nitoy No.23 imeni "Nedawitrud" (plavnyy vraph A.M. Lobenova).

STEPANOVA, N.P. (MOSKVA)

Hare case of ametiasis, Arkh. pat. 26 nc.4:76-78 '64. (MIRA 18:7)

1. Patologoanatomicheskoye otdoleniye (zav. - deystvitel'nyy chlen AMN SSSR prof. I.V.Davydovskiy) Gorodskoy klinicheskoy bol'nitsy No.23 imeni Medsanirud (glavnyy vrach A.N.Lobanova).

STEPANOVA, N.S.; GOSHKINA, A.I.

Therapeutic solutions 22 and 44 and their use in the clinic. Akt.vop. perel.krovi no.7:360-362 '59. (MIRA 13:1)

1. Klinika obshchey khirurgii I Leningradskogo meditsinskogo instituta im. akademika I.P. Pavlova (zav. kafedroy - chlen-korrespondent AMM SSSR prof. A.N. Filatov).

(STAPHYLOCOCCAL DISEASE)

HELE STREET SET THE STREET SET THE SET EWT(m)/EWP(t)/EWP(b) L 43589-65 19 Z/0000/62/000/000/0064/0064 ACCESSION NR: AT5009572 18 AUTHOR: Distanov, B.G.; Kresal'naya, L.Z.; Stepanova, N.S. TITLE: Application of the liquid extraction method to the preparation of alkali halides and other high-purity salts SOURCE: Konference o monokrystalech. 4th, Turnov, 1961. Sbornik referatov. Turnov, VUM, 1962, 64 TOPIC TAGS: alkali halide, salt purification, liquid extraction, heavy metal extraction, organic complex, dithizone, hydroxyquinoline, column chromatography, alumina ABSTRACT: A promising and efficient method of purification by which heavy metals can be be removed from salts is liquid extraction of the impurities, based on the "loss of affinity for water" of complex compounds formed by the ions of the impurities with various organic complex-forming agents. The method was applied to the following salts: LiCl, NaCl, KCl, KBr, NaI, RbI, CsI, KI, NaNO3, and CaCl2. The technique consisted of treating concentrated solutions of these salts with solutions of dithizone and ortho-hydroxyquinoline in carbon tetrachloride, then extracting the iron and heavy-metal impurities 1/2 Card

L 43589-65

ACCESSION NR: AT5009572

as dithizonates and hydroxyquinclates. Final purification was accomplished with a chromatographic column (alumina and channel black) to remove the remaining impurities and complex forming agents. Orig. art. has: 1 table.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov, Khar'kov (All-Union Scientific Research Institute of Single Crystals)

SUBMITTED: 00

ENCL: 00

SUB CODE: IC

NO REF SOV: 003

OTHER: 000

Card 8/2

5/081/62/000/013/002/054 B158/B144

Belynstin, A. V., Kolina, A. V., Stepanova, N. S.

AUTHORSE Grystallization of spheres in the presence of impurities

TITLE:

Referativnyy zhurnal. Khimiya, no. 13, 1962, 43 - 44, abstract 138250 (3b. "Rost kristallov. v. 3". M., AN SSSR, PERICUICAL:

1961, 152 - 155)

这种名称结果的连续地震的全球的全球的关系是美国人的的数据或类型的文化实现的对人,然而是否对于点。对它不多对于

TEXT: The effect of impurities on the form and quality of crystals growing on crystalline spheres from solutions was studied. Tests were carried out on crystallization of spheres of alumopotassium alum and Rochelle salt. Spheres of 10-15 mm dia. were suspended in the solution; thus it was noted which faces appeared in the presence of certain impurities. NaOH and KOH impurities result in the best development of all faces of Rochelle salt and improve their quality; Al2(SO4)3 has a similar effect on alum. In other cases, impurities have a selective effect: H2504 causes a weakening in the {221} faces of alum, and faces {211} become larger. One and the same impurity can have the same effect on all faces Card 1/2

Crystallization of spheres ...

3/081/62/000/013/002/054 B150/B144

at low concentrations, but a selective effect at high concentrations: at 100% excess of Al₂(30₄)₃ in the alum solution, faces {211} develop notice—ably more actively, while faces {221} are suppressed. The selective effect of an impurity or combination of impurities can spread to the whole range of orientations and the growth of a rounded surface becomes possible. The method of crystallizing spheres explains how an impurity affects the development and quality of a large number of faces, and enables a more thorough study of the general and selective effect of impurities. Impurities that substantially affect the process of crystal growth have a relatively weak effect on the complex of faces appearing on a sphere. Some impurities retard deposition of a substance on considerable sections of the ophere's surface and alter its character'in such a way that the corresponding sections remain transparent. [Abstracter's note: Complete translation.]

Card 2/2

S/078/62/007/006/019/024 B119/B138

AUTHORS:

Distanov, B. G., Kresal'naya, L. Z., Stepanova, N. S.,

Kipriyanova, S. S.

TITLE:

Production of high-purity alkali halide salts

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 6, 1962, 1464-1465

TEXT: The authors purified the salts LiCl, NaCl, KCl, KBr, NaI, RbI, CsI, KI, NaNO₃, and CaCl₂ by extracting concentrated aqueous solutions of them with solutions of dithizon and o-hydroxyquinoline in carbon tetrachloride (at pH 7 - 7.5 and pH 5 - 6, respectively), and then passing the salt solutions through a chromatographic column (filling: Al₂O₃ and channel black in layers). The salts purified of Fe, Mn, Cu, Ni, and Co contained impurities of only $1 \cdot 10^{-5}$ - $1 \cdot 10^{-6}$ %, and are suitable for the production of single crystals. There are 2 tables.

SUBMITTED: Augu

August 7, 1961

Card 1/1

CIA-RDP86-00513R001653220004-8 "APPROVED FOR RELEASE: 08/26/2000

L 5081-66 EWT (1 ACC NR: AP5024559 EWT(1)/T IJP(c)

THP/0070/65/010/005/0743/0745

AUTHOR: Belyustin, A.V.; Stepanova, N.S.

TITLE: Method of growing crystals from solutions under static conditions

SOURCE: Kristallografiya, v. 10, no. 5, 1965, 443-745

TOPIC AGS crystal growing, thermostat, potassium compound

ABSTRACT: An earlier article (A. V. Belyustin, Kristallografiva, 6, 5, 807-808, 1961) described a very simple method of growing crystals from solutions under static conditions with an hermosiating (at room temperature). In the present paper, some improvements and modifications of this method are discussed. They concern primarily the insert of the crystallizer; the principle of the method and the shape of the crystallizer remain the same. Another improvement is the addition of thermostating; a suitable thermostat is described. The constant temperature and unchanging supersaturation achieved through the use of this thermostat minimize the strains in the crystais, and there are other practical advantages such as the simultaneous growing of a large number of crystals in separate crystallizers, small volume of solution, etc. Crystals of potassium phosphate dihydrate grown by this technique are illustrated. Orig. art. bas: 2 figures.

ASSOCIATION Gor'kovskiy assledovatel'skiy fiziko-tekhnicheskiy institut (Gorkly Physicotechnic Research Institute)

SUBMITTED: 25Nov64

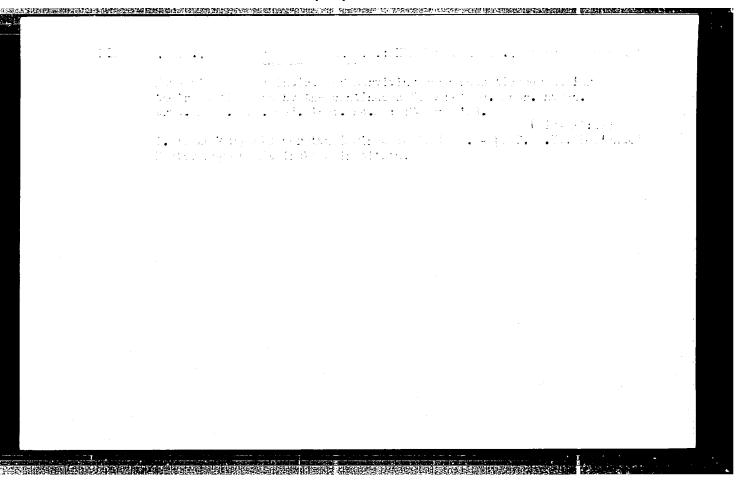
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STEPANOVA, N. V., Candidate Phys-Math Sci (diss) -- "The synchronization of a negative klystron". Moscow, 1959. 5 pp (Moscow Orderof Lenin and Order of Labor Red Banner State U im M. V. Lomonosov, Phys Faculty), 150 copies (KL, No 25, 127)

68651

9,4220

S/141/59/002/05/012/026 E041/E321

AUTHOR:

Stepanova, N.V.

TITLE:

Synchronization of a Reflex Klystron with a Small External

Force

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,

1959, Vol 2, Nr 5, pp 753 - 758 (USSR)

ABSTRACT: The method due to R.V. Khokhlov is applied in the case where the amplitudes of the external (\mathbf{E}_{Ω}) and controlled

 (A_0) voltages are related to cavity quality factor (Q) by

 $\mathbf{E}_{_{\mathrm{O}}} \ll \mathbf{A}_{_{\mathrm{O}}}/\mathbf{Q}$. The starting point is $\mathbf{E}\mathbf{q}$ (1) previously

derived by the author in Ref 2. Close to synchronism the resultant waveform can be represented by Eq (2), where A(t) , the amplitude, and $\phi(t)$, the phase, are slowly varying functions of time. Differential equations for

A and ϕ are Eqs (4) and (5). The parameter $\mu = E_0 Q/A_0$ is then introduced and the expression for

A is Eq (11). Three curves are drawn in Figure la showing normalized amplitude versus detuning. The limits

Card 1/3

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S/141/59/002/05/012/026

Synchronization of a Reflex Klystron with a Small External Force

of the synchronizing interval are determined by dW/dA = 0; the appropriate locus (Eq 12) is shown dotted in Figure la. The amplitude and phase equations are re-written in Eqs (14), (15) in terms of a frequency deviation (Δ) and a capture limit (κ). When $\Delta \angle \kappa$ the equations describe the synchronization process within the locking range; when $\Delta > x$ heats occur. The latter case is considered further. Figure 2 shows the variation of amplitude with time when the normalized capture limit is ± 0.0707 and the detuning is (a) 0.12, (6) 0.075, (B) 0.0725. Figure 16 gives the frequency curves corresponding to the conditions in Figure la. It is observed that the onset of synchronism occurs without any jump in frequency. The results have been verified experimentally using a power source of several W coupled via a 30-40 db attenuator to a klystron. The transitangle deviation γ was 30 , ϕ = 200 and μ = 0.8 . The latter value was much larger than the theory supposed but smaller values would have made measurements very difficult. The curve shapes, in Figure 3, for amplitude

Card2/3

68651

S/141/59/002/05/012/026

E041/E321 Synchronization of a Reflex Klystron with a Small External Force

and frequency agree well with the theory. K.F. Teodorchik

is thanked for discussions.

There are 3 figures and 4 Soviet references.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet

(Moscow State University)

SUBMITTED: February 25, 1959

1

Card 3/3

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

STEPANOVA, N. V., and MINAKOVA, I.I.

"The Synchronization of a Reflex Klystron," by I. I. Minakova and N. V. Stepanova, Physics Faculty of the Moscow State University, Radiotekhnika i Elektronika, No 6, Jun 56, pp 805-808

The synchronous performances of a klystron oscillator under the influence of small exterior e.m.f. were theoretically and experimentally investigated. It was proved that the form of the amplitude curve and the width of the synchronization band substantially depend on the transit angle.

It was also shown that with increased divergence of the transit angle from the optimum value, under a constant ratio of the amplitude of the external forces to the amplitude of the free self-oscillations, the synchronization band width and amplitude maxima increase.

Sum 1239

12

9(4)

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AUTHORS: Minakova, I.I., Stepanova, N.V., and Shuvalov, A.T. SOY/55-58-4-14/31

TITLE: Investigation of the Synchronization of a Reflex Klystron for a Small Sinusoidal Electro-Motive Force (Issledovaniye sin-

khronizatsii otrazhatel'nogo klistrona maloy sinusoidal'noy adc.)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya adalmatiki, mckabuki,astrono-

mii, fiziki, bhindi, 1958, Nr 4, pp 125-156 (033R)

ABSTRACT: The synchronization of a reflex klystron is investigated

> theoretically and experimentally if there acts a small electromotive force, the frequency of which spontantes frequency of the free vibrations. It is shown that the appearance of a delay in the neighbouring system, for an action of an outer electro-motive force, leads to several physician: : Deformation of the amplitude curve and the region of the phase instability; the carrying along of the frequency of permanent

> vibrations by the frequency of the outer force there also appears a "repulsion" of the frequencies. The dependence of the width of the strip of synchronization and the maximal amplitude on the

outer force, however, remain linear in a VAPA Interval also for

Card 1/2

Investigation of the Synchronization of a Reflex Klystron for a Small Sinusoidal Electro-Motive Force

507/55-58-4-14/31

a delay. The theoretical and experimental results agreed very MALL. Also results of P.A.Ryazin Ref ? are confirmed. A method of K.F.Teodorchik Ref 5 is used.

There are 6 figures, and 8 references, 7 of which are Soviet, and 1 Swiss.

ASSECIATION: Kafedra kolebaniy (Chair of Oscillations) SUBMITTED: August 9, 1957

Card 2/2

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L	2676-66 EWT(1)/EWA(j)/EWA(b)-2 JK CESSION NR: AP5021288 UR/0020/65/163/005/1266/1269 UTHOR: Stepanova, N. V.; Romanovskiy, Yu. M.; Lyerusalimskiy, N. D. (Corresponding to the control of the control	1
AT	TOWNOR . Stenanova N. V. Romanovskiy, Yu. M.; Iyerusalimskiy, N. D. (Corresponding	08
me T]	TLE: Mathematical model of the growth of microorganisms in a propertion of the growth of microorganisms in a propertion of the growth of microorganisms in a property of the growth of the	
S	OURCE: AN SSSR. Doklady, v. 163, no. 5, 1965, 1266-1269	
TO	PIC TAGS: bacteriology, mathematic model, differential equation, scillograph	
f f m t T	estract: Tests with continuous cultures have shown that the basic eatures of biomass growth may be described knowing only the collowing values: concentration of the culture medium at its inimum, concentration of the inhibitor affecting the minimal rate in the biochemical order of reactions, and concentration of the biomass the mathematical task thus consists of constructing and studying ystems of kinetic differential equations, and the values of the cefficients in such systems may be obtained from the test itself. I model was constructed based on Propionibacterium shermanii grown in culture medium with lactate as the carbon source. Given was the	
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		100

L 2676-66

ACCESSION NR: AP5021288

culture medium concentration S_0 entering the cultivator at rate F. The mixture of nonreacted lactate, biomass and fermentation products left the container at the same rate. The dilution coefficient D = F/V characterizes the washing out of the biomass from the cultivator (V is the volume of the cultivator). The rate of change of concentration X of the biomass in the cultivator is expressed by the equation

 $dX/dt = -DX + \mu X. \tag{1}$

where μ is the specific rate of growth, a nonlinear function of S which also depends on the concentration of P, one of the fermentation products (propionate). This formula is further developed to arrive at a system of equations which connects concentration of the biomass, culture medium, products of vital activity and their derivatives. Curves plotted on the basis of these equations closely approximated experimental curves. For the study of transitory processes appearing with a change in system parameters, a solution of the above system of nonlinear equations was required, and was obtained using an electron model. Processes of adjustment in the system may be determined with an oscillograph with photo attachment. The oscillograms

Card 2/3

L 2676-66 ACCESSION NR: AP5021288

explain to a certain extent the nature of equilibrium stability. Further refinement of this method, including more accurate coefficients and introduction of factors characterizing bacterial inertia, will permit a more thorough study of the system's behavior and of biomass growth problems. Orig. art. has: 3 figures and 9 formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University): Elnstitut mikrobiologii Akademii nauk SSSR (Microbiology Institute, Academy of Sciences, SSSR)

SUBMITTED: 23Apr65

ENCL: 00

SUB CODE: LS. MA

NR REF SOV: 002

OTHER: 001

Card 3/3

PARTICIPATION OF THE PROPERTY OF THE PARTICIPATE OF SOURCE CODE: UR/0413/66/000/020/0104/01044 ACC NRI AP 6035879 (A,N) INVENTOR: Gol'dat, S. Yu.; Sokolova, R. V.; Firsova, A. P.; Kadakova, L. P.; Parfenova, A. I.; Karakishisheva, T. I.; Stepanova, N. V. ORG: none TITLE: Actinomyose aureofaciens strain LSB-181, producing chlortetracycline and tetracycline. Class 30, No. 187242. [Announced by All-Union Scientific Research Institute for Antibiotics (Vaesoyuznyy nauchmoissladovatel'skiy institut antibiotikov)] SOURCE: Izobreteniya, promyshlennyye obrastey, tovarnyye znaki, no. 20, 1966, 104 TOPIC TAGS: antibiotic, drug, Actinonyces aureofaciens, chlortetracycline, tetracycline ABSTRACT: An Author Certificate has been issued for strain LSB-181 of Actinomyces aureofaciens. Light-sensitive mycelia in 5-6 mm colonies appear on its tenth day of growth on no. 12 organic agar medium at 28C. On no. 11 synthetic medium, dirty-white colonies 2.5—3 mm in diameter appear, and on pea medium, brown, raised, wrinkled, as porulating colonies seven mm in diameter are found. Milk is completely peptonized on the tenth day, and coagulation is noted on the 15th day, at which UDC: 615.45:615.779.931 Card 1/2

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> APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

UDC: 615.45:615.779.931

•	time the geletin is also slightly liquified. The sporophores lack to the geletin is also slightly liquified. The sporophores lack coils, and spores are rectangular and oval. Activity in laboratory coils, and spores are rectangular and oval. Activity in laboratory conditions on regulation media with corn extract is of the order of conditions on regulation media with corn extract is of the order of 5000—5600 j/ml. Also, this strain is resistant to actinophages 22 and 22a. [WA-50]
	SUB CODE: 06/ SUBM DATE: 28May65
	Card 2/2

GERMANOVA, K.I.; LEVITOV, M.M.; STEPANOVA, N.Ye.; NENASHEVA, A.M.

Physiological characteristics of various strains of Penicillium chrysogenum; certain characteristics of metabolism in strains B-51-20, 31 and 24 [with summary in English]. Antibiotiki 3 no.6:8-14 N-D '58. (MIRA 12:2)

(PENICILIN, metabolism, April 24 (Rus))

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220004-8"

POPOVA, L.A.; STEPANOVA, N.Ye.

THE PROPERTY OF THE PROPERTY O

Some problems in the physiology of a highly productive strain of Streptomyces noursei in connection with the biosynthesis of nystatin. Antibiotiki 7. no.12:1051-1057 D'62. (MIRA 16:5)

1. Vsesoyuznyy nauchno issledovatel'skiy institut antibiotikov.
(ACTINOMYCES) (NYSTATIN)

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POPOVA, L.A.; STEPANOVA, N.Ye.

Effect of fats on the formation of nystatin from a highly productive strain of Str. noursei. Antibiotiki 7 no.10: 868-873 0.62 (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel skiy institut antibiotikov.

"APPROVED FOR RELEASE: 08/26/2000 CIA-

CIA-RDP86-00513R001653220004-8

SAVEINEV, G. I.; STEPAKOVA, O. I.; SERDYUK, R. L.

"The influence of nitrogen admixture on heat transfer in the condensation of moving water vapor at a pressure up to 12 ATM."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 report submitted for

LIPATOVA, Nina Ivanovna; STEPANOVA Oliga Mikhaylovna; KHARAS, K.K., nauchn. red.; ISH, N.N., red.; TOKER, A.M., tekhn. red.

在大学生的特殊性的情况,我们可能可以用自己的。但是我们的对于他们的对抗的。在1950年的,在1950年的1950年。

[Industrial training of cooks] Proizvodstvennoe obuchenie povarov; metodicheskoe posobie. Moskva, Proftekhizdat, 1963. 187 p. (MIRA 16:9)

1. Zamestitel' direktora po uchebnoy rabote professional'notekhnicheskogo uchilishcha No.10 Leningrada (for Lipatova). 2. Starshiy master proizvodstvennogo obucheniya professional'no-tekhnicheskogo uchilishcha No.10 Leningrada (for Stepanova). (Cooking schools)

STEPANOVA, O.O., kand.khim.nauk Epoxy resins. Nauka i zhyttia 10 no.9:20-21 S '60. (MIRA 13:9) (Epoxy resins)

BYAKOV, V.M.; STEPANOVA, C.P.

Some correlations in the process of recrystallization of a polydisperse system. Thur. fiz. khim. 36 no.6:1324-1326 Je*62 (MIRA 17:7)

1. Institut teoreticheskoy i eksperimental*noy fiziki AN SSSR.

BYAKOV, V. M.; STEPANOVA, O. P.

"Liquid mixing in boiling."

report submitted for 2nd All-Union Conf on Heat & Transfer, Minsk, 4-12 May 1964.

Inst of Theoretical & Experimental Physics.

L 40832-66 $\Xi \Pi(1)$ TM/GD ACC NR: AT6021837 SOURCE CODE: UR/0000/65/000/000/008L/0099 AUTHOR: Byakov. V. M.; Stepanova, O. P.; Ershler, B. V. ORG: <u>Institute of Theoretical and Experimental Physics</u>. <u>Moscow</u> (Institut teoreticheskoy i eksperimental noy fiziki) TITLE: Heat transfer and mixing in a boiling liquid SOURCE: Teplo- i massoperenos. t. III: Teplo- i massoperenos pri fezovykh prevrashcheniyakh (Heat and mass transfer. v. 3: Heat and mass transfer in phase transformations) Minsk, Nauka i tekhnika, 1965, 84-99 TOPIC TAGS: heat transfer, boiling, turbulent mixing ABSTRACT: The article first considers the growth of individual bubbles of vapor in a superheated liquid. If the radius, R, of the bubble is sufficiently great so that the capillary pressure due to the curvature of the surface can be neglected, the determining factor in the growth rate of a bubble of vapor is the rate of heat supply from the surrounding medium. The situation is described by the following equation: $\rho^{\circ} L \frac{d}{dt} \left(\frac{4\pi}{3} R^{\circ} \right) = 4\pi R^{\circ} \times (T - T^{\circ}) \left(\frac{3}{\pi at} \right)^{1/s}$ (1)

Card 1/2

L 40882-66

ACC NR: AT6021837

Here L is the heat of vapor formation; ρ^n is the density of the vapor; Tⁿ is the temperature of the vapor; K and ∞ are, respectively, the coefficients of the thermal conductivity of the liquid and the thermal diffusivity. Next follows a mathematical treatment of the case of the growth of a spherical bubble which is moving with respect to the liquid. Further sections of the article are devoted to a mathematical development for a vapor bubble in a boiling liquid, of turbulent diffusion in a boiling liquid, and a consideration of the laws governing the bubbling process. Orig. art. has: 26 formulas and 6 figures.

SUB CODE: 20/ SUBM DATE: 09Dec65/ ORIG REF: 014/ OTH REF: 007

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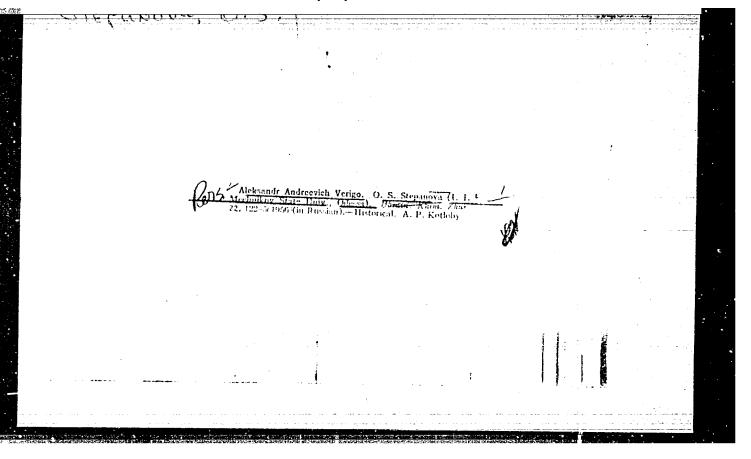
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CIA-RDP86-00513R001653220004-8

STEPANOVA, O.S. (gorod Odessa).

Hydrogenation processes in industry. Khim.v shkole no.6:16-23 M-D (MIRA 6:11)
153.

(Hydrogenation)



Category: USSR / Physical Chemistry / Kinetics. Combustion.

Explosives. Topochemistry. Catalysis.

B-9

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30067

Author : Plisov A. K., Stepanova O. S. Inst : Odessa University

Title : Preparation of Benzoic Acid by Decarboxylation of Phthalic Anhydride

with Odessa Green Clay

Orig Pub: Tr. Odessk. un-ta, 1956, ser. khim., 146, No 5, 91-93

Abstract: On passing a mixture of phthalic anhydride and water vapor (at a

ratio of about 1:6) at 400° and anhydride space velocity of about 0.1 g per g of catalyst per hour, over catalysts prepared from clay of the deposits of Shkodova Gora (I) and Arkadiyskoye Poberezh'ye (II), benzoic acid was obtained with a yield of about 31% over I, and of about 76% over II. With a catalyst (Al 0 + Zn0) deposited on pumice, under the same conditions, the yield is of 87-90%.

Card : 1/1 -30-

STEPANOVA, O.S., dotsent, kandidat khimicheskikh nauk; AL'TNR, Ye.M.,
inzhoner-khimik

Processing and inspection of "choloses." Apt.delo 6 no.1:35-37
Ja-F'57.
(DOG ROSE) (DRUGS)

"我的我**是是这种的,我们就是这个人的,我们就是我们就是是这个人的**,我们就是我们的一个人的,我们就是这个人的,我们就是这个人的。" STEPANOVA, US

73-1-23/26 AUTHORS: Stepanova, O.S. and Mozharovskaya, A.V.

Stereochemical Researches of P. I. Petrenko-Kritchenko. (Store)khimicheskiye raboty P. I. Petrenko-Kritchenko). TITLE:

(1866-1944).

PERIODICAL: Ukrainskiy Knimicheskiy Zhurnal, 1957, Vol.23, No.1,

pp. 122-127 (USSR)

Evaluation of the work in the field of stereochemistry ABSTRACT:

commemorating the 90th anniversary of the birth of this

scientist.

There are 18 Slavic references.

AVAILABLE: Library of Congress

Card 1/1

ALITER, Ye.N.; STEPANOVA, O.S.; ZAKHARENKO, O.I.

也是我们就是我们的时候,我们也是是我们就是我们的是我们的是我们的,我们就是我们的的。这个可以是这个人的。这个人也不是我们也不是一个人的。

New method for obtaining a thyme extract and the quantitative determination of thymol in it [with summary in English]. Apt.delo 8 no.1: 6-9 Ja-F 159. (MIRA 12:2)

STEPANOVA, Ol'ga Sergeyevna; BOGATSKIY, Aloksay Vsavolodovich; GOLUB, A.M., otv.red.; TUBCLEVA, N..., red.

[Chemistry in the service of people] Khimiis na slushbe naroda.

Kiev, 1960. 31 p. (Obshchestvo po rasprostraneniiu politicheskikh
i nauchnykh znanii Ukrainskoi SSR. Ser.5, no.12)

(MIRA 14:2)

(Chemistry)

BOGATSKIY, A.V.; STEPANOVA, O.S.

Reactions of primary and secondary alkyl halides with sodium malonate. Zhur. VKHO 5 no. 2:230 '60. (MIRA 14:2)

1. Odesskiy gosudarstvennyy universitet imeni I.I. Mechanikova.
(Alkyl halides) (Malonic acid)

AL'TER, Ye. N.; STEPANOVA, O.S.

Some peculiarities in obtaining and analyzing natural gastric juice. Apt.delo 9 no.1:67-68 Ja-F '60. (MIRA 13:6) (GASTRIC JUICE)

Relative reactivity of primity and secondary alkyl halides in reactions with sodium paramics ester. Nauch, eshegod. Khim. fak. 0d. un. no.2.87.89 %%% (MIRA 17:8)

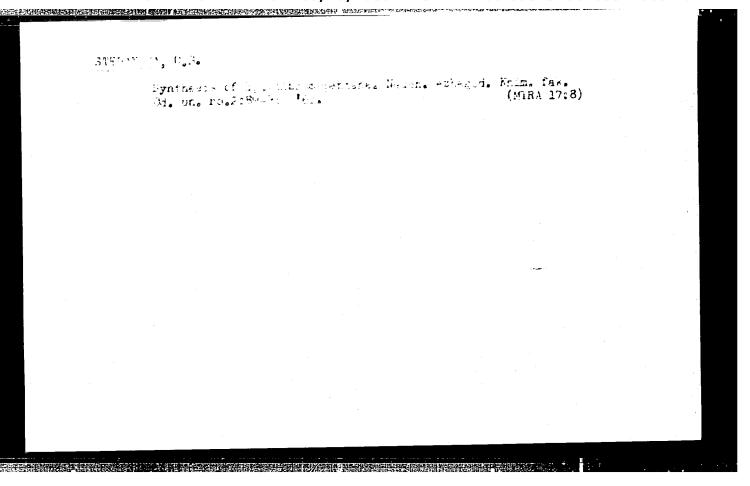


Fig. V, 1.8., 1992. All VC, 1992.

Saidation of circult Carin cityl enters. Nauch. eznegod. Khim.
Pak. Te. vn. 409. Ph-102 [8].

(MIRA 1718)

KONSHIN, N.P.; SIFFERNOVE, O.S.; VAYSMAN, B.M.; CHYNSHILL, G.I.

Determination of the readiness of modified glystal resins, binding agents for linoleum, Nauch, ezhegou, Khim, fak. Od. un. no.2:102-712 '61. (MIRA 17:8)

Development of organic chemistry in works of the scientists of the Odessa University. Nar.z ist.tekh. no.7:13-26 '61. (MIRA 15:2)

(Chemistry, Organic)

AL'TER, Yo.N. [Al'ter, IE.N.]; STEPANOVA, O.S.

Physicochemical changes in natural gastric juice under the influence of low temperatures and filtration. Farmatsev. zhur. 16 no. 2:60-63 '61. (MIRA 14:4)

1. Laboratoriya Odes'kogo khimfarmzavodu, Odes'kiy derzhavniy universitet im. I.I. Mechnikova.

(GASTRIC JUICE)

THE CONTROL CONTROL OF s/073/61/027/006/005/005 B110/B147 5.3400 2209 Stepanova, O. S., Drozdovskaya, M. I. Alkyl acrylic acids and their derivatives. II. Synthesis of α-butyl acrylic acid and its esters AUTHORS: PERIODICAL: Ukrainskiy khimicheskiy zhurnal, v. 27, no. 6, 1961, 786 - 788 TITLE: TEXT: The authors investigated the synthesis of α -butyl acrylic acid (I) and produced some of its derivatives: COOC H R-ĆH Na a6c. 94 -CH-COOH+CO2 COOC₂H₅ COOH $CH_2=C-COOH+R_1OH+CO_2$ COOH (R = n-butyl). card 1/4

S/073/61/027/006/005/005 B110/B147

Alkyl acrylic acids and their...

Butyl malonic ester was obtained from sodium malonic ester and butyl bromide with boiling point = 92°C/3 mm Hg, n_D =1.4238, d₄ =0.9756. Methoxy methyl butyl malonate (II), was produced from sodium butyl malonate and methyl chloride ethyl ether in absolute ether with boiling point methyl chloride ethyl ether in absolute ether with boiling point methyl chloride ethyl ether in absolute ether with boiling point 112-113°C/4 mm Hg, n_D =1.431, d₄ =1.0011, MR_D=67.23 with 82% yield. (I) with the twofold amount of 33% alcohol, was heated for 3 hr with KOH. It was diluted with water, alcohol was distilled off, and methoxy butyl malonic acid (III) with 98% yield and boiling point 115°C was separated by excess H₂SO₄. III was intensively heated for a longer period. The following result was obtained by vacuum fractional distillation: (1) boiling point 94-95°C/6 mm Hg, (2) β-methoxy-α-butyl proprionic acid (IV), boiling point 121-122°C/6 mm Hg. Optimum yield of I was obtained by 12 hr heating of III at 270-280°C. 28 and 76% yield of I was obtained after 20 and 70 hr heating of II with 10-fold HCl excess (2:1). I polymerizes on standing. When it is heated, the monomer is produced. PCl₅ with I yields the anhydride of chlorine, boiling point 167-169°C. NH₃ combined with the

s/079/62/032/004/001/010 D204/D301

1.1:70 AUTHOR:

Stepanova O.S.

TITLE:

Synthesis of α -allyl acrylic acid and its esters

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 4, 1962, 1026-1029

TEXT: The above was studied in the hope that presence of the unsaturated group in the molecule would increase the tendency towards polymerization. Methoxymethyl- and ethoxymethyl allyl malonic acids were first obtained by the acid and alkaline hydrolysis of the corresponding ethyl esters produced by the malonic ester synthesis, and were then decomposed by heating for 10 - 11 hours, at 220 - 230 and were then decomposed by neating for 10 - 11 nours, at 220 - 230 °C. On fractionation under vacuum the thermally decomposed methoxymethyl allyl malonic ester gave: 1) 6 % methyl ester of the methoxymethyl allyl acetic acid, 2) 6 % of the corresponding ethyl ester, methyl allyl acetic acid, 2) 6 % of the corresponding ethyl ester, 33.2 % of α-allyl acrylic acid (A), and 4) 52.0 % of methoxymethyl allyl mathyl allyl acetic acid. Decomposition of the ethoxymethyl allyl acetic acid. The shows recentages references acid. of the ethoxymethyl allyl acetic acid. The above percentages refer to yields. Further heating of the alkoxymethyl allyl acetic acids Card 1/2

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APPROVED FOR RELEASE: 08/26/2000

Synthesis of α -allyl acrylic acid and ...D204/D301 Synthesis of α -allyl acrylic acid and ...D204/D301

gave A and other products. The reaction is briefly discussed and the procedures and products are described in some detail. Me, Et and Pr esters of A were prepared by standard methods and their physical constants are tabulated. The compounds polymerized on standing, even at room temperature. On heating with traces of H₂SO₄, A polymerized to a transparent, colorless thermoplastic mass insoluble in organic solvents. A.S. Kovbasyuk, L.I. Mitina and Lu-su-Hua took part in the work. There are 4 tables, and 7 references: 3 Soliet-bloc and 4 non-Soviet-bloc. The references to the Englishlanguage publications read as follows: C.S. Marwel, R.L. Myer, and J.H. Saunders, J.Am.Chem.Soc., 70, 1694, 1948; C.S. Marwel, W.R. Miller and L.S. Chow, ibid., 72, 5408, 1950; J.C. Crawford and S.D. Swift, ibid., 74, 1220, 1952; ibid., 75, 2858, 1953.

ASSOCIATION: Odesskiy gosudarstvennyy universitet imeni I.I.

Mechnikova (Odessa State University imeni I.I. Mechni-

kov)

SUBMITTED: March 13, 1961

Card 2/2

STEPANOVA, O.S.

Synthesis of 1,4-dibromopentane and its reaction with sodiomalonic ester. Zhur.ob.khim. 32 no.10:3295-3298 0 162. (MIRA 15:11)

经企业大支持。1967年11月2日中国国际开发的企业(1977年11月1日)(1977年11月)(1977年1

1. Odesskiy gosudarstvennyy universitet imeni I.I. Mechnikova. (Penatane) (Malonic acid)

。这种是我的**的现在,我们就不会我们是这种的问题是因为**他们的是我们是我们就是我们的的,我们就是这个人的,我们就是这些人,不是不知识了,我们是这些人的人,不是一个人

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ECCEPTION, N.P. [Konstyn, H.P.]; REZGHDOVA, Zh.I. [Bezhudova, Zh.I.];
STEPAROVA, O.S., kand. khim. nauk

Entert of temperature on the content of three-dimensional structures in glyptal resins. Khim. prom. [Ukr.] no.1:11-12
No.481 103

1. Olesskiy probkovo-linoleumnyy zavod "Bil'shovik" (for Konshin).
2. Olesskiy gosudarstvennyy universitet (for Bezgudova, Stepanova).
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STEPANOVA, O.S.; DROZDOVSKAYA, A.I. [Drozdovs'ka, A.I.]; YATSENKO, G.A. [IAtsenko, H.A.]

Synthesis of alkoxymethylalkylmalonic esters and acids. Khim. prom. [Ukr.] no.2:49-51 Ap-Je '63. (MIRA 16:8)

1. Odesskiy gosudarstvennyy universitet.

STEPANOVA, O.S.; TISHCHENKO, O.I.; DROZDOVSKAYA, A.I.; KAL'NITSKAYA, B.A.; PANCHUK, T.D.; YATSENKO, Ye.A.

Synthesis of some OL-halo ethers. Zhur. WKHO 8 no.5:598-599 163. (MIRA 17:1)

1. Odesskiy gosudarstvennyy universitet imeni Mechnikova.

STEPANOVA, O.S.; YATSENKO, Ye.A.

Synthesis and saponification of alkoxymethyl alkyl malonic esters. Ukr.khim.zhur. 29 no.6:612-614 '63. (MIRA 16:9)

1. Odesskiy gosudarstvennyy universitet.
(Malonic acid) (Saponification)

STEPANOVA, O.S.; SEMENYUK, L.A.; DROZDOVSKAYA, A.I.; YATSENKO, Ye.A.

的。我们就是<mark>了我们的我们就是这种的人们的,我们就是我们的,我们就是</mark>我的人,我们就是这个人的人们的,我们就是这一个人们的人们的人们的人们的人们,但是不是一个人们的

Syntheses of methoxymethylalkyl derivatives of barbituric acid. Ukr. khim. zhur. 29 no.10:1115-1116 163.

(MIRA 17:1)

1. Odeskiy gosudarstvennyy universitet im. I.I. Mechnikova.

ZAKHAROV, M.S.; STROMBERG, A.G.; STEFANOVA, O.S.; GURSKAYA, S.F.

Determination of the microconcentrations of germanium, barium, potassium, nickel. Metod. anal. khim. reak. i prepar. no.5/6: 95-101 163. (MIRA 17.9)

1. Tomskiy politekhnicheskiy institut.

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STEPANOVA, O.S.; SAMITOV, Yu.Yu.; YATSENKO, Ye.A.

所有的情况的<mark>对对原则,但是是这种的的现在分别是,然后的</mark>的特别,就是不是是不是不是不是,我们就是这些人,他们就会这个人,也可以不会心理,也是一个人,不是有一种人,不

Nuclear magnetic resonance spectra of alkoxymethylethylmalonic acids and their esters. Zhur.ob.khim. 33 no.7:2267-2270 Jl '63. (MIRA 16:8)

1. Odesskiy gosudarstvennyy universitet i Kazanskiy gosudarstvennyy universitet.

(Malonic acid-Spectra)

YATSENKO, Ye.A.; STEPANOVA, O.S.

在种种的主义,是一个人的主义,这种人的主义,是一个人的主义,是一个人的主义,是一个人的主义,是一个人的主义,是一个人的主义,是一个人的主义,他们也不是一个人的一个

Synthesis and transformations of alkoxymethyl alkyl malonic esters. Part 1: Decomposition of alkoxymethylethylmalonic acids on heating. Zhur.ob.khim. 33 no.12:3823-3825 D '63. (MIRA 17:3)

STEPANOVA, O.S., kand.khim.nauk; KONSHIN, N.P. [Konshyn, N.P.];
BEZGUDOVA, Zh.I. [Bezhudova, Zh.I.]

Continuous re-esterification of oils. Khim.prom. [Ukr.] no.1:
6-8 Ja-Mr '64. (MIRA 17:3)

ACCESSION NR: AP4041679

\$/0153/64/007/002/0184/0188

AUTHOR: Stepanova. O. S., Zakharov, M. S., Trushina, L. F., Aparina, V. T.

TITLE: Investigation of intermetallic compounds of gallium and germanium with copper and of gold with cadmium by the accumulated mercury polarographic method

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 2, 1964, 184-188

TOPIC TAGS: gallium copper intermetallic compound, germanium copper intermetallic compound, gold cadmium intermetallic compound, CdAu, GaCu, GeCu, polarography, accumulated mercury electrode, stationary mercury electrode, solubility product

ABSTRACT: Intermetallic compounds of Ga and Cu, Ge and Cu, and Cd and Au were studied to determine their composition. Type 7-77-4b polarograph with an electrolyser, which was described by A.G. Stromberg, M.S. Zakharov, L.F. Zaichko (Zavodsk. laboratoriya, 27, 517 (1961)), was used in the investigation. The following electrolytes were used: for Ga-Cu, O.IM KCl + O.IM sodium salicylate;

Card 1/3

for Ge-Cu, 0.2M Na₂CO₃ + 0.025M complexon III; and for Au-Cd, 0.1M (NH₁)₂SO₄. The Cd, Ga and Ge concentrations were of the order of 10.4mbl/1. The anodic peaks for Cd, Ga and Ge disappeared when [Au] : [Cd] = 1, [Cu] : [Ga] = 1 and [Cu] : [Ge] = 3, respectively, indicating the intermetallic compounds CdAu GaCu and CaCu. indicating the intermetallic compounds CdAu, GaCu and GeCu3. The solubility product of GaCu and GcCu₃ in mercury was determined (2 x 10-6 and 8.4 x 10-13gm. at.² 31-2, respectively) by calculations described by A.G. Stromberg, V.E. Gorodovy*kh (Zh. neorgan. khimii & 2255 (1062)) khimii, 8, 2355 (1963)). The solubility product of CdAu could not be calculated since the potential of the Au anodic peak is higher than that of the mercury solution. The maximum concentrations of Ga and Cu and of Ge and Cu ions which do not form intermetallic compounds in mercury and which therefore can be determined. compounds in mercury and which therefore can be determined without introducing errors under given analytical conditions were determined. A greater concentration of these ions can be counteracted by decreasing electrolysis time or increasing the volume of mercury. conclusion I thank Prof. A.G. Stromberg for valuable advice in conducting and evaluating the work." Orig. art. has: 5 equations, 1 figure and 2 tables.

ACCESSION NR: APLOU1679

ASSOCIATION: Kafedra fizicheskoy i kolloidnoy khimii, Tomskiy politekhnicheskiy institut im. S. M. Kirova (Department of Physical and Colloidal Chemistry, Tomsk Polytechnic Institute)

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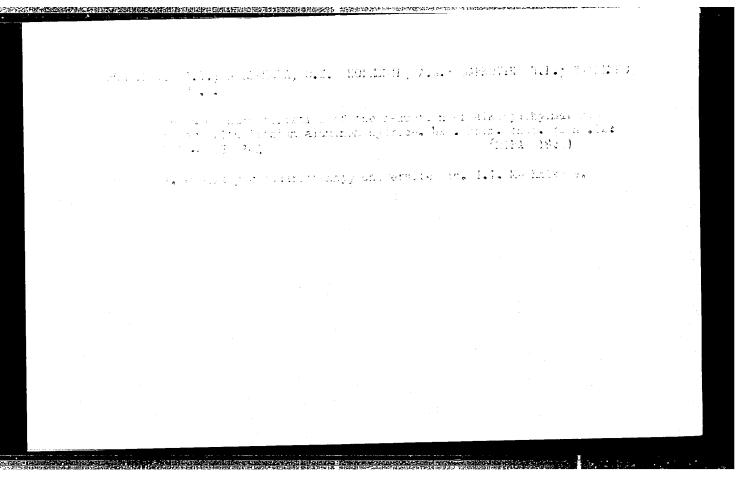
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	L 6727-465 ENT(m)/ENP(q)/EMP(b) SSD/AFWL/ESD(gs)/RAEM(t) JD/JG		
	ACCESSION NR: AP4046462 S/0032/64/030/010/1180	1/1181	
	AUTHORS: Stepanova, O. S.; Zakharov, M. S.; Trushina, L. F. TITLE: Determination of germanium in indium of high purity by the method of amalgam polarography with accumulation	F	
	SOURCE: Zavodskaya laboratoriya, v. 30, no. 10, 1964, 1180-1181		
	TOPIC TAGS: indium, germanium, polarography, impurity content, quantitative analysis		
	ABSTRACT: A method is proposed whereby germanium can be extracted from indium high purity by means of a reaction which produces germanium tetrachloride. Subsequent polarographic analysis determines the quantity of germanium extracted indium specimen is treated with 9-n HC1 and CC1 _A , whereupon the germanium goes	The	
	solution. Further mixing with water prepares the dissolved germanium for extra tion by electrolysis. Results of tests revealed that a maximum sensitivity of	·o-	-
	10 ⁻⁶ % Ge can be attained with a relative error of 6 to 10%. Orig. art. has: 1 and 1 figure.	table	_
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STEPANOVA, O.S.; ZAKHAROV, M.S.; TRUSHINA, L.F.; APARINA, V.I.

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Study of intermetallic compounds of gallium and germanium with copper and gold with cadmium by the method of amalgam polarography with storage. Izv. vys. ucheb. zav.; khim. i khim. tekh. 7 no.2:184-188 '64. (MIRA 18:4)

1. Kafedra fizicheskoy i kolloidnoy khimii Tomskogo politekhnicheskogo instituta im. S.M. Kirova.

STEPANOVA, (.f.; or increase, i.ha.

Nyethesis and transformations of m. community alryl malons estars. and 5: Nyethesis and some transformations of alkonymouty lenty lmalonic esters. This obtains 34 no. 5: 1867-1869. My 'o...

(MCM 17-7)

SAMITOV, Yu.Yu.; YATSENKO, Ye.A.; STEPANOVA, O.S.

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Synthesis and transformations of alkoxymethylalkyl malonic esters. Part 3: Nuclear magnetic resonance spectra of methyl esters of /3-alkoxy- /4-ethylpropionic acids. Zhur. ob. khim. 34 no.8:2652-2654 Ag '64. (MIRA 17:9)

1. Odesskiy gosudarstvennyy universitet im. I.I. Mechnikova i Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina.